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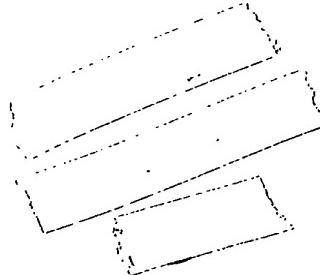
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APPLICATION NUMBER: 60/515,813

FILING DATE: October 30, 2003

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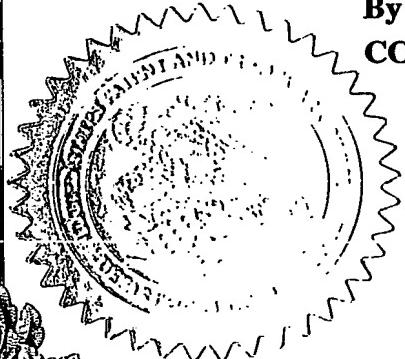
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# PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR §1.53(c).

Express Mail No. EV333559087US

Docket No.  
03-972

Type a plus sign (+)  
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U.S. PTO  
22387  
60/515813



## INVENTOR(S)/APPLICANTS(S)

LAST NAME	FIRST NAME	MIDDLE INITIAL	RESIDENCE (City and either state or foreign country)
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## TITLE OF THE INVENTION (280 character maximum)

Method and System for Providing Wireless Identification

## CUSTOMER NUMBER

20306

McDonnell Boehnen Hulbert & Berghoff

## ENCLOSED APPLICATION PARTS (check all that apply)

- Specification Number of Pages 4       Drawings Number of Sheets 3  
 Other: Return Receipt Postcard

## METHOD OF PAYMENT FOR THIS PROVISIONAL APPLICATION FOR PATENT

- Applicant claims small entity status. See 37 CFR 1.27  
 A check or money order is enclosed to cover the Provisional Filing Fee.  
 The Commissioner is hereby authorized to charge filing fees and credit Deposit Account Number: 13-2490.

PROVISIONAL  
APPLICATION FOR  
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AMOUNT (\$)

\$160.00

## CERTIFICATE OF MAILING

I hereby certify that, under 37 CFR § 1.10, I directed that the correspondence identified above be deposited with the United States Postal Service as "Express Mail Post Office to Addressee," addressed to Mail Stop Provisional Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on the date indicated below.

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

x No. \_\_\_\_\_ Yes, the name of the U.S. Government agency and the Government contract number are: \_\_\_\_\_

Respectfully submitted,

SIGNATURE:

Date: October 30, 2003

TYPED or PRINTED NAME Neilesh R. Patel

REG. NO. 50,918

Additional inventors are being named on separately numbered sheets attached hereto.

## **Method and system for providing wireless identification.**

### Field of the invention

The present invention is related to wireless communication networks. More specifically,  
5 a method and system for using a wireless communication device for identification purposes  
is disclosed.

### Background of the invention

10 Nowadays the use of wireless communication devices like, for example, mobile phones or personal digital assistants (PDA) is widespread. With the emergence of new technologies the use of these devices is not limited to voice applications. A lot of new data communication applications are being developed, for instance based on a third generation telecommunication protocol, e.g. UMTS. It is generally accepted that in the near future  
15 mobile devices will be used for applications like buying tickets and making small payments. So far a majority of those areas have required that persons bring along a physical ticket – a special piece of paper or plastic card that was the token enabling the access to specific areas or identifying a bearer as someone accredited for specific actions / benefits. A major issue in the development of these systems is the secure identification of a user.

20 On the other hand, RF-ID cards have started to gain a large popularity and are more and more being employed. RF-ID smartcards provide secure means of identifying persons carrying the cards. However, even with RF-ID technology the problem inherent to traditional ticketing remains: one ticket is required for one purpose. Also the ticket is tied to  
25 a physical medium of the card and cannot be delivered wirelessly over large distances. WO 02/49322 discloses a mobile telephone (10) including a device for checking the identity of a user in connection with various transactions. The device may include one or more of fingerprint scanning means, voice or password recognition means (e.g. using a microphone of the telephone), photograph display means (e.g. using a display of the telephone) or retina  
30 recognition means. The telephone also includes a short-range communication means for undertaking RFID smart card transactions. A user can load data representing money by

means of a telephone communication into a memory for use in subsequent transactions. Alternatively, current transactions may be validated. The memory may have sub-divisions corresponding to different smart cards.

- 5 A drawback of this system is that the mobile phone itself needs to be adapted. All existing phones are not suitable to be used with the disclosed system.

#### Problem definition

Thus the prior art fails to disclose an easy to implement system and method for  
10 using the identification means of a RF-ID card in a wireless communication device.

#### Aim of the invention

The aim of the invention is to provide an easy to implement system and method for using  
the identification means of a RF-ID card in a wireless communication device.

15

#### Summary of the invention

#### Brief description of the drawings

20 Fig 1 shows an example of a RF-ID tag enhanced SIM card.

Fig 2 shows an example of how a RF-ID tag can communicate with the SIM card.

Fig 3 shows an example of how a wireless device comprising a RF-ID tag can be  
used with a reader.

25 Detailed description of the invention

Figure 1 shows a RF-ID enhanced SIM card. A RF-ID tag is added to the traditional SIM card that is needed to operate a mobile phone. With a RF-ID enhanced SIM card it is not necessary to adjust a wireless device, to provide the use of RF-ID technology. The owner of  
30 a wireless device only has to change his SIM card, something he can do quite easily.

Figure 2 shows how the RF-ID tag can communicate with the SIM card. In this way it is possible to receive new data for the RF-ID tag over the wireless communication network, e.g. by SMS. That means that ID codes (virtual tickets) can be delivered to the RF-ID enhanced SIM card through existing OTA mechanisms, and the phone itself can be used as a carrier for all virtual tickets and loyalty cards.

With this it will be possible to offer applications as:

- M-Ticketing: access to concerts, cinemas, sport centres, ski-areas and other various venues
- 10 • Access control: temporary or permanent validity code can be sent to visitors which grants them access for a certain period to business buildings. Access rights can be regulated via OTA SMS – very flexible for buildings with a large number of visitors or fast fluctuating workforce (virtual access card).
- 15 • M-Loyalty cards / virtual membership cards: a permanent code can be sent to persons holding a specific membership information like an Airmiles number or membership information for video rental store.
- Micro payments: pre-paid: RF-ID chip can act as a wireless chipknip. Putting extra money will be done wirelessly. Existing chipknip terminals could be refitted for wireless. Post-paid: IMSI / KI / own ID could be used for post paid invoicing.

20

Figure 3 shows an example of how a RF-ID tag reader can be used to access the data on the RF-ID tag in the wireless device.

### Claims

25

What is claimed is:

1. A SIM card comprising an RF-ID tag.

2. A method comprising:  
receiving data over an air interface; and  
storing the data in an RF-ID tag of a SIM card.
  
- 5       3. The method of claim 2, further comprising reading the data from the RF-ID tag.

Figure 1

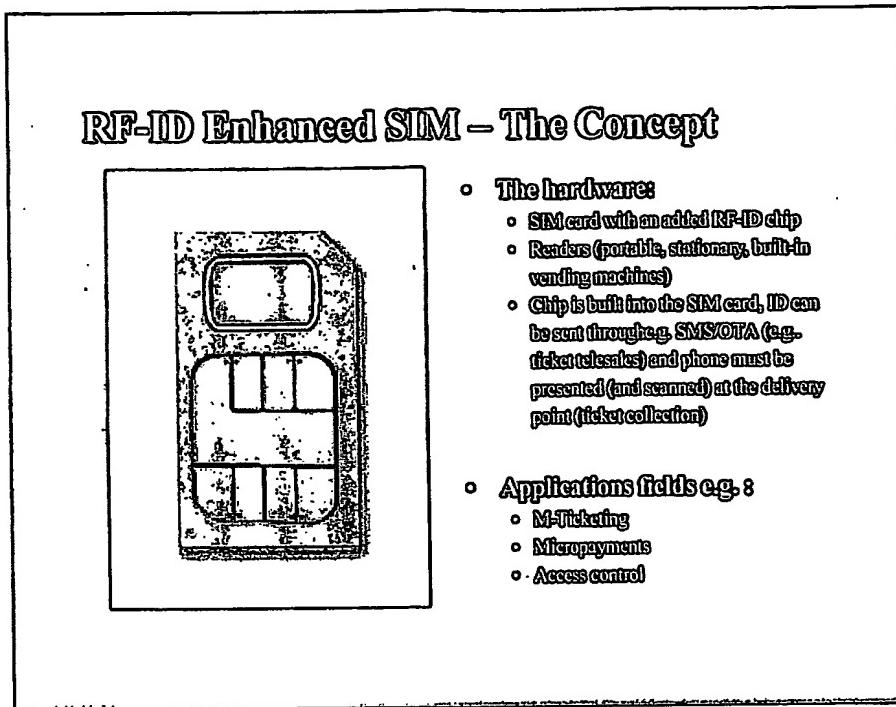


Figure 2

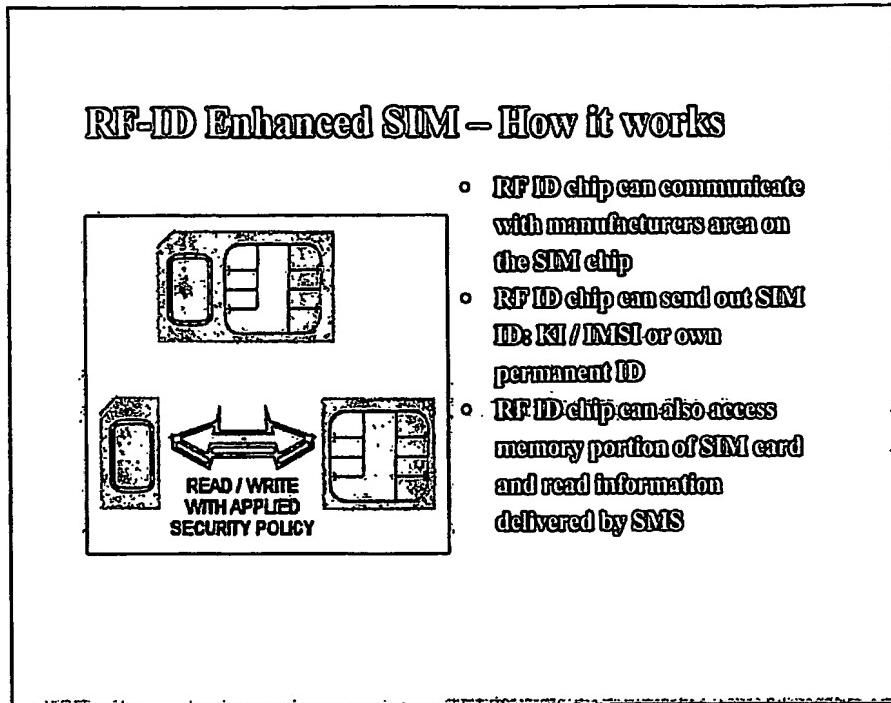
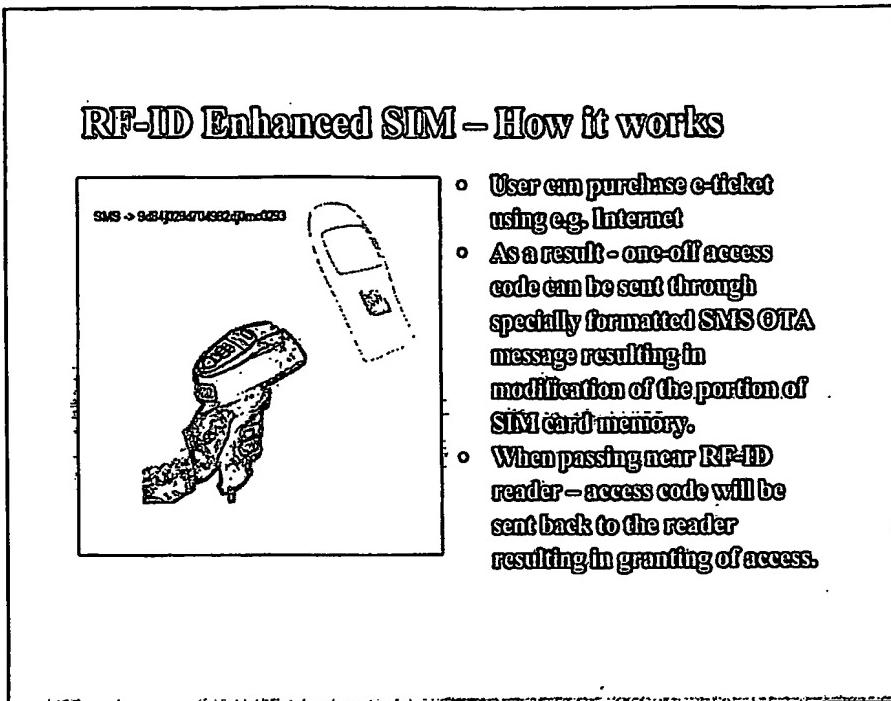


Figure 3



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